

## IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A method of moulding materials in which a mould is used having a plurality of mould components with moulding surfaces together defining a moulding cavity, said method comprising the step of forming at least part of the mould components of a polymerisable starting material and polymerising said material under polymerisation conditions, characterized in that said starting material before polymerisation is a polymerisable compound of the formula:  $Z-X-Y$ , wherein Y and Z are the same or different polymerisable groups selected from the group consisting of



wherein  $R=CH_3, H, Cl, F, CN$



wherein  $n=0-3$

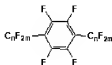


wherein  $n=0-3$ ,  $R=phenyl, CH_3$ ;

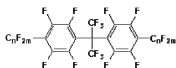
wherein X is a polymerisable group having the formula  $(CRR')_n A (CRR')_m$ , wherein  $R, R'=H, alkyl$ ;  $n, m=0-3$ ,

wherein  $A=C_nF_{2n}$ , linear or branched,  $n=4-20$ ; or

A= a combination of perfluorinated aromatic and aliphatic structures such as groups having the formulae



and



wherein  $n, m=0-4$ .

2. (currently amended) A method according to claim 1, characterized in that said polymerisable groups Z and Y are independently chosen from the groups consisting of polymerisable (meth)acrylate, oxetane, glycidylether, allylether, epoxy, vinyl ether and vinyl ester, or mixtures thereof, ~~wherein Z or Y can be also~~ and a thiol group ~~with the proviso that when such polymerisable group is a thiol group, such thiol group is used~~, in combination with other radically polymerisable monomers selected from said Z and Y groups whereby ~~in such a way that~~ crosslinked polymers are obtained.

3. (previously presented) A method according to Claim 1, characterized in that the starting material is 2,2'-(2,2,3,3,4,4,5,5-octafluoro 1,6-hexanyloxymethyl)diepoxide, wherein both Y and Z are glycidylether groups.

4. (previously presented) A method according to Claim 1, characterized in that the starting material is 2,2,3,3,4,4,5,5-octafluoro 1,6-hexanediol-dimethacrylate wherein both Y and Z are methacrylate groups.

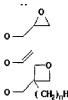
5. (previously presented) A method according to Claim 1, characterized in that the F/C-ratio (Fluoro-Carbon ratio) of said polymerisable compound is higher than or equal to 8/14.

6. (previously presented) A method according to Claim 1, characterized in that the moulding cavity is shaped for moulding an optical component therein.

7. (currently amended) A method of moulding materials in which a mould is used having a plurality of mould components with moulding surfaces together defining a moulding cavity, said method comprising the step of forming at least part of the mould components of a polymerisable starting material, polymerising said material for forming the mould, filling the moulding cavity with a mixture of moulding material, applying UV-light or heat to said moulding material in the mould to set or cure the moulding material, continuing the UV-light or heat treatment until sufficient stiffness has developed in the moulded article and removing the moulded article thus made from the mould, wherein said mould is made of the polymerization product of a polymerisable starting material compound of the formula: Z-X-Y wherein Y and Z are the same or different polymerisable groups selected from the group consisting of



wherein  $R = \text{CH}_3, \text{H}, \text{Cl}, \text{F}, \text{CN}$



wherein  $n=0-3$

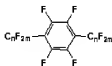


wherein  $n=0-3$ ,  $R = \text{phenyl}, \text{CH}_3$ ;

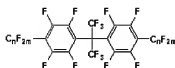
wherein  $X$  is a polymerisable group having the formula  $(\text{CRR}')_n \text{A}(\text{CRR}')_m$ , wherein  $R, R' = \text{H}, \text{alkyl}$ ;  $n, m = 0-3$ ,

wherein  $\text{A} = \text{C}_n\text{F}_{2n}$ , linear or branched,  $n=4-20$ ; or

A = a combination of perfluorinated aromatic and aliphatic structures such as groups having the formulae



and



wherein  $n, m = 0-4$ .

8. (currently amended) A method according to claim 7, characterized in that said polymerisable groups  $Z$  and  $Y$  are independently chosen from the groups consisting of (meth)acrylate, oxetane, glycidylether, allylether, epoxy, vinyl ether and vinyl ester, or mixtures thereof, ~~wherein  $Z$  or  $Y$  can be also~~ and a thiol group with the proviso that when such polymerisable group is a thiol group, such thiol group is used in combination with other radically polymerisable monomers selected from said  $Z$  and  $Y$  groups whereby ~~in such a way that~~ crosslinked polymers are obtained.

9. (previously presented) A method according to Claim 7, characterized in that the starting material is 2,2,3,3,4,4,5,5-octafluoro 1,6-hexanediol-dimethacrylate wherein both Y and Z are methacrylate groups.

10. (previously presented) A method according to Claim 7, characterized in that the starting material is 2,2'-(2,2,3,3,4,4,5,5-octafluoro 1,6-hexanyloxymethyl)diepoxide wherein both Y and Z are glycidylether groups.

11. (previously presented) A method according to Claim 7, characterized in that the F/C-ratio (Fluoro-Carbon ratio) of said polymerisable compound is higher than or equal to 8/14.

12. (currently amended) Optical components obtained according to a method as ~~disclosed~~ claimed in Claim 7.

13.(currently amended) A mould for making optical components comprising a plurality of mould components with moulding surfaces together defining a moulding cavity, wherein said mould is obtained by polymerising a mixture comprising, as a main constituent thereof, a polymerisable compound of the formula: Z-X-Y, wherein Y and Z are the same or different polymerisable groups selected from the group consisting of :



wherein R=CH<sub>3</sub>, H, Cl, F, CN



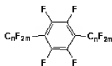
wherein n=0-3



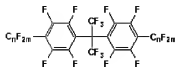
wherein n=0-3, R=phenyl, CH<sub>3</sub>;

wherein X is a polymerisable group having the formula (CRR')<sub>n</sub> A(CRR')<sub>m</sub>, wherein R,R'=H, alkyl; n,m=0-3,  
wherein A=C<sub>n</sub>F<sub>2n</sub>, linear or branched, n=4-20; or

A= a combination of perfluorinated aromatic and aliphatic structures such as groups having the formulac



and



wherein n,m=0-4 .

14.(currently amended) A mould according to claim 13, characterized in that said polymerisable groups Z and Y are chosen from the group consisting of (meth)acrylate, oxetane, glycidylether, allylether, epoxy, vinyl ether and vinyl ester, or mixtures thereof, wherein Z or Y can be also and a thiol group with the proviso that when such polymerisable group is a thiol group, such thiol group is used in combination with other radically polymerisable monomers selected from said Z and Y groups whereby in such a way that crosslinked polymers are obtained.

15.(previously presented) A mould according to claim 13, characterized in that the starting material is 2,2,3,3,4,4,5,5-octafluoro 1,6-hexanediol-dimethacrylate wherein both Y and Z are methacrylate groups.

16.(previously presented) A mould according to Claim 13, characterized in that the starting material is 2,2'-(2,2,3,3,4,4,5,5-octafluoro 1,6-hexanyloxymethyl)diepoxide wherein both Y and Z are glycidylether groups.

17.(previously presented) A mould according to Claim 13, characterized in that the F/C-ratio (Fluoro-Carbon ratio) of said polymerisable compound is higher than or equal to 8/14.

18.(previously presented) A mould according to Claim 13, characterized in that the shape of the mould is spherical or aspherical and is made of said polymerisable material, the aspect ratio of the layer thickness made of said material is about 50 or less.

19. (new) A method of moulding materials in which a spherical or aspherical mould is used having a plurality of mould components with moulding surfaces together defining a moulding cavity, said method comprising the step of forming at least part of the mould components of a polymerisable material, polymerising said material for forming the mould, filling the moulding cavity with a mixture of moulding material, applying UV-light or heat to said moulding material in the mould to set or cure the moulding material, continuing the UV-light or heat treatment until sufficient stiffness has developed in the moulded article and removing the moulded article thus made from the mould, wherein said mould is made of the polymerization product of a polymerisable compound selected from the group consisting of 2,2,3,3,3,5,5-octafluoro 1,6-hexanediol dimethacrylate and 2, 2'-(2,2,3,3,4,4,5,5-octafluoro 1,6-hexanyloxymethyl)diepoxide.

20. (new) A mould for making optical components comprising a plurality of mould components with moulding surfaces together defining a moulding cavity, wherein said mould is spherical or aspherical and is obtained by polymerising a mixture comprising, as a main constituent thereof, a polymerisable compound selected from the group consisting of 2,2,3,3,3,5,5-octafluoro 1,6-hexanediol dimethacrylate and 2, 2'-(2,2,3,3,4,4,5,5-octafluoro 1,6-hexanyloxymethyl) diepoxide.

21. (new) A mould as claimed in claim 20 wherein said mould is suitable for use in the manufacture of optical lenses and is effective without substantial deterioration of either lenses or mould after replication of at least 100 lenses.